

Governing Board Meeting February 10, 2011



Ecological Conditions Update

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Kissimmee Basin

- **Above-normal rainfall in January, but overall, dry conditions persist**
- **January Snail Kite survey:**
 - 11 nests are active on Lake Toho; 2 on East Lake Toho
 - A total of ~180 Kites were sighted
- **Lower Basin:**
 - Drying pools continue on the floodplain, with lower use by wading birds than in previous years
 - Low water levels are providing optimum shorebird habitat in the Phase I river channel



Kissimmee Basin

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Exotic Armored Catfish

With low inflow from S65 (less than 250 cfs in the past month), the Kissimmee River and floodplain continue to experience dry conditions despite recent rains



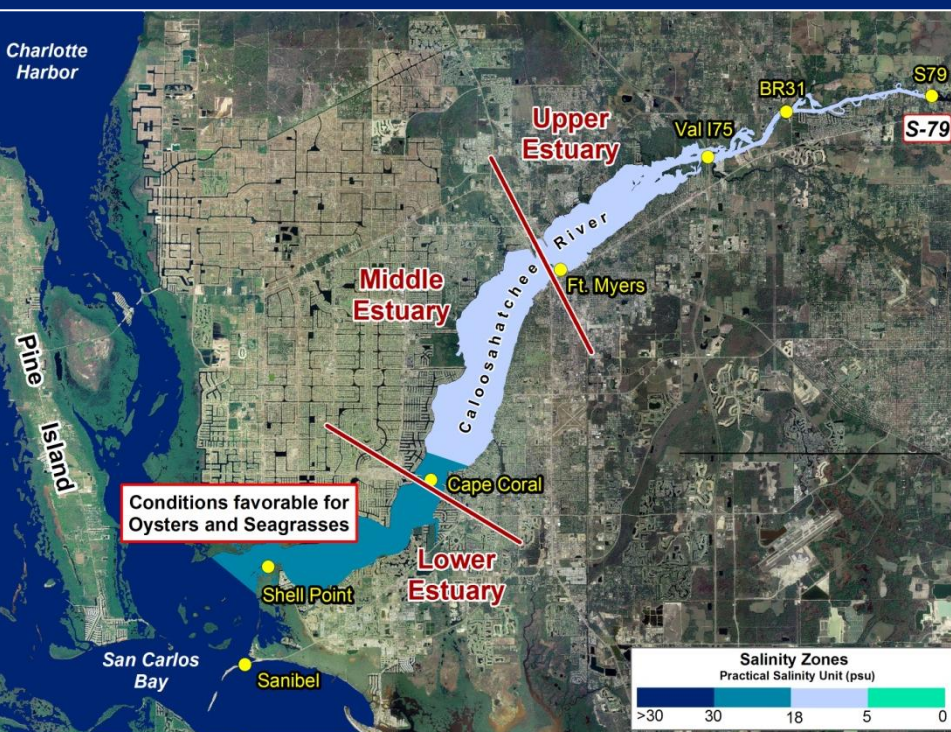
Bald Eagle

Sandhill Cranes

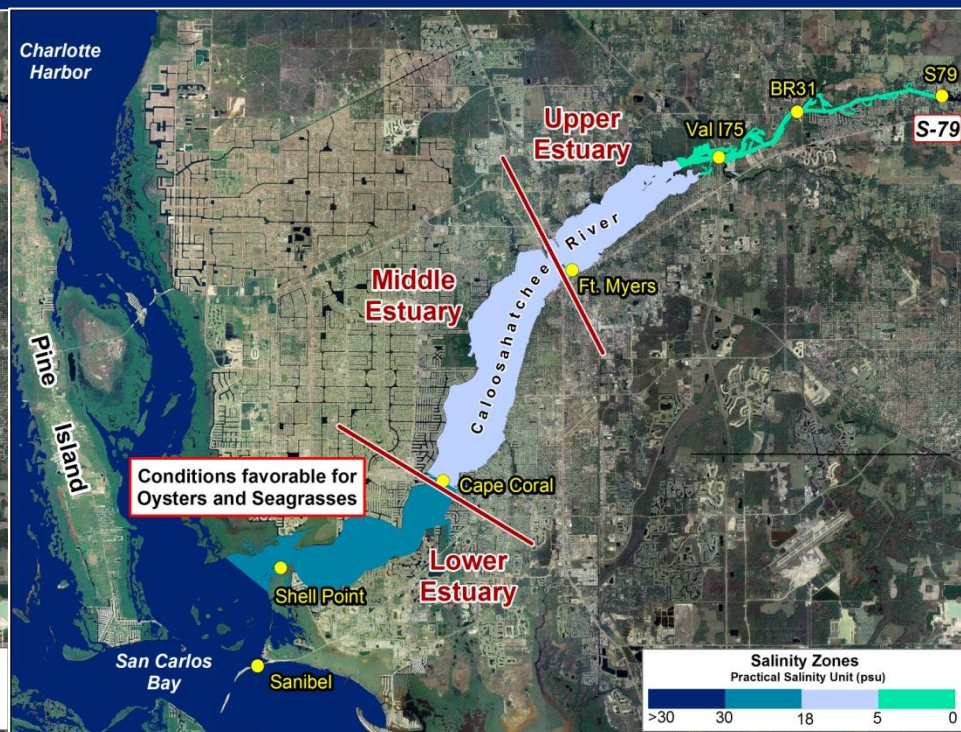
Caloosahatchee Estuary

Salinity Conditions

January 10, 2011 Conditions



February 7, 2011 Conditions

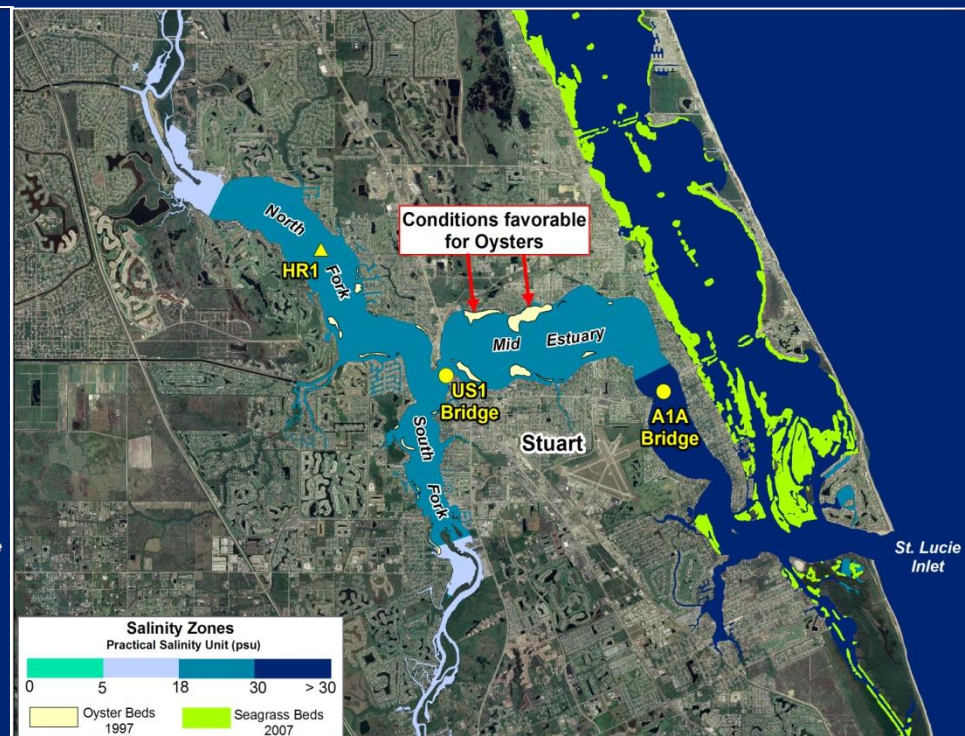
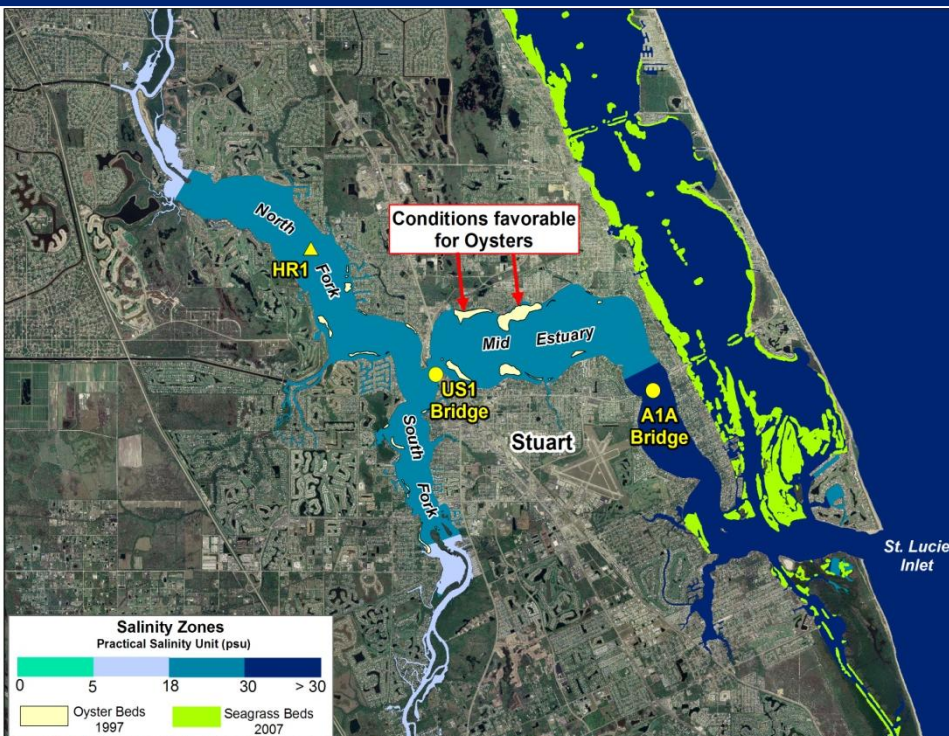


St. Lucie Estuary

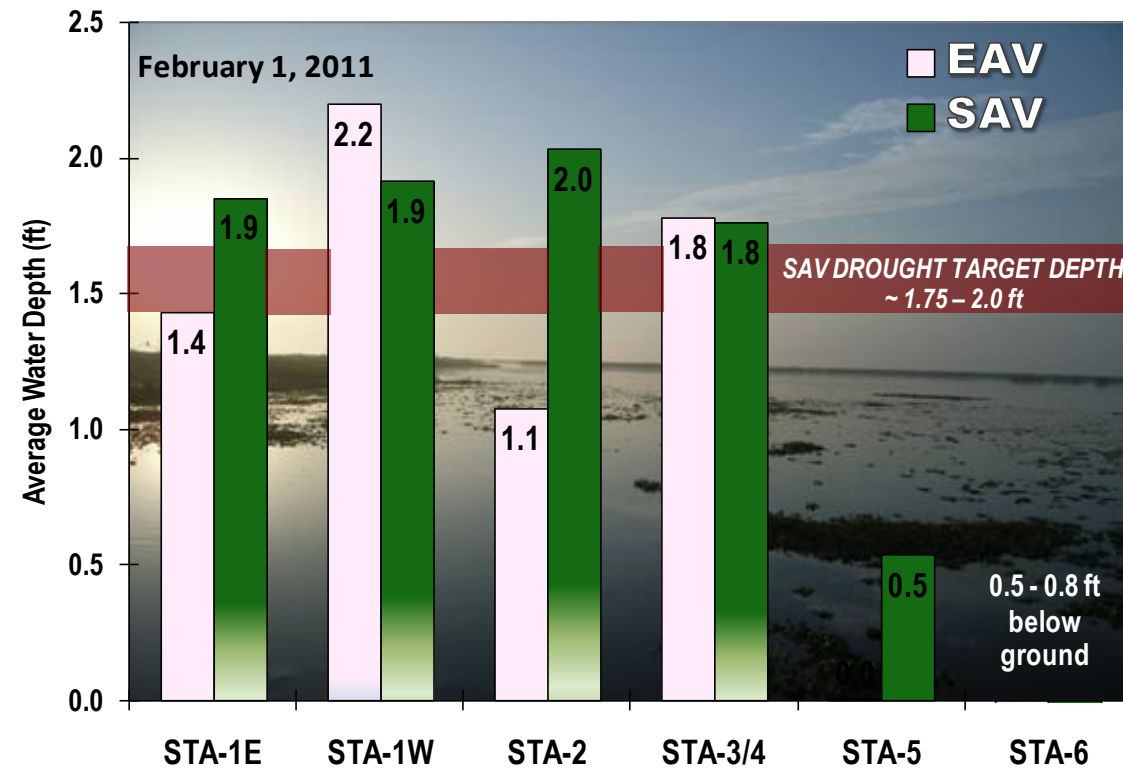
Salinity Conditions

January 10, 2011 Conditions

February 7, 2011 Conditions



Stormwater Treatment Areas



As of February 1st, 2011, ~ 8,000 ac-ft of supplemental water has been delivered to the STAs from Lake Okeechobee

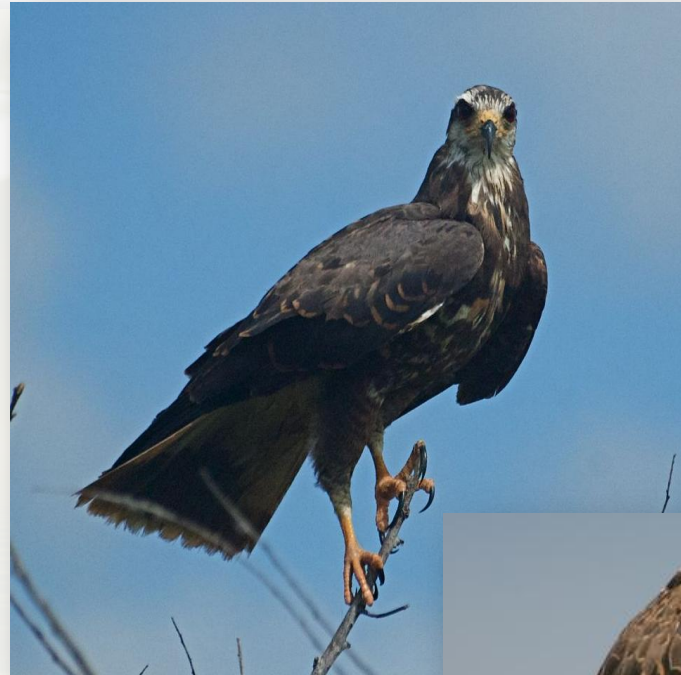
- Current water levels range from below ground to above target stage
- Dry-out conditions:
 - STA-2 Cell 4 (Comp B Construction)
 - STA-5 Cells 1A, 2A, 3A and 3B
 - STA-6
- STA-2 Cell 1 recently rehydrated due to rainfall driven water deliveries
- No additional supplemental water deliveries occurred after January 9th, 2010
- Discharges from STA-1E, STA-1W, STA-2 and STA-3/4 occurred as a result of January rain events

Stormwater Treatment Areas

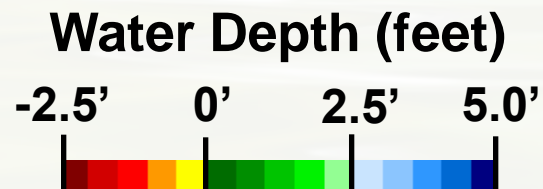
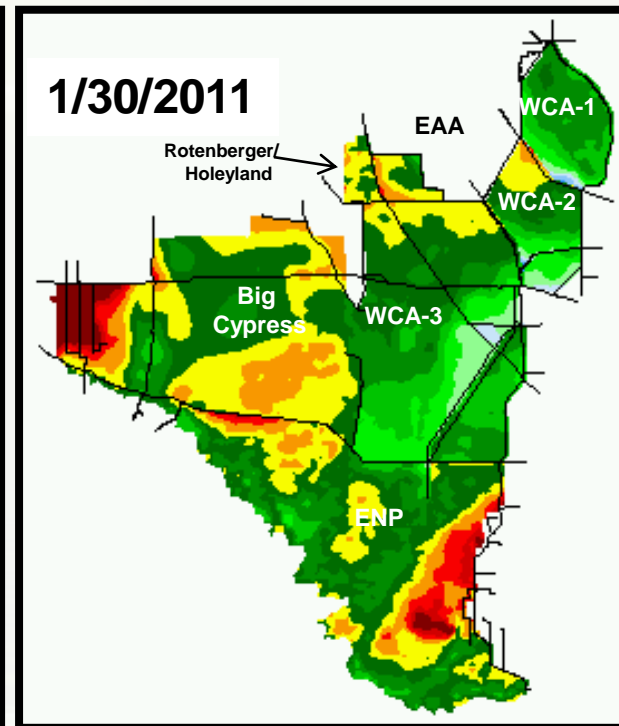
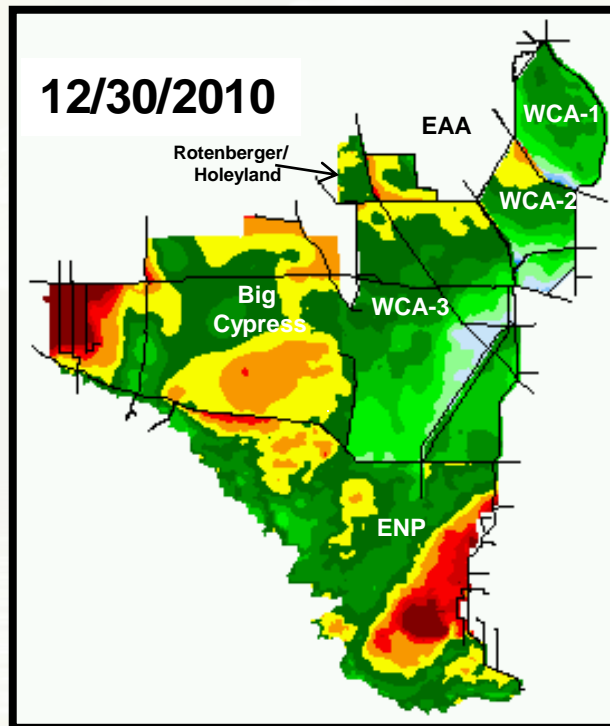
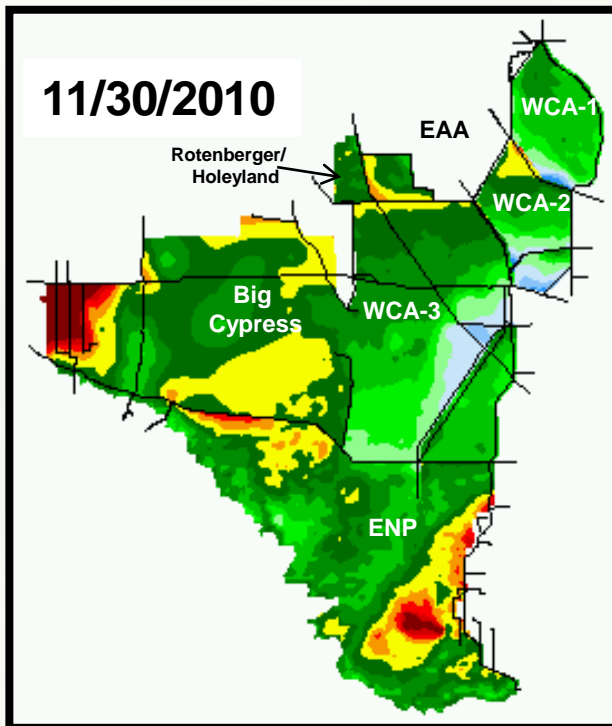
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Wildlife Issues

- In 2010, Snail Kite nesting affected STA-5 operation
- 21 Snail Kites were spotted in STA-5
- 2011 STA-5 Snail Kite Plan – final draft
- Biological Opinion for STA-5 – under revision

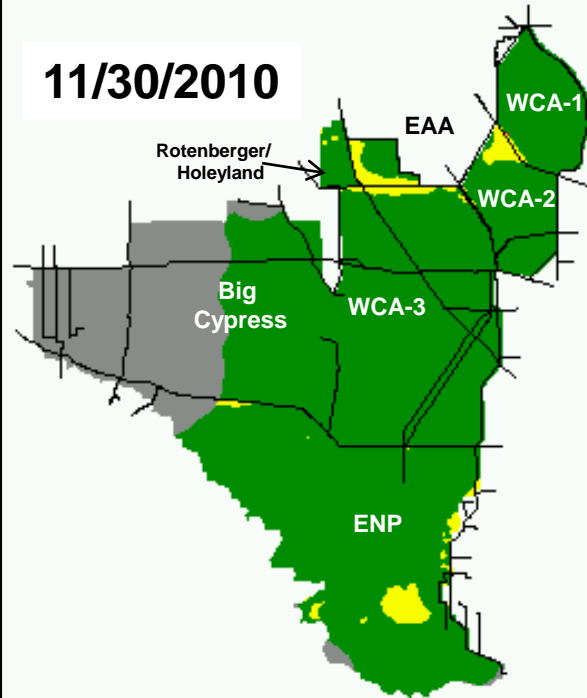


Greater Everglades Water Depth Monthly Snapshots

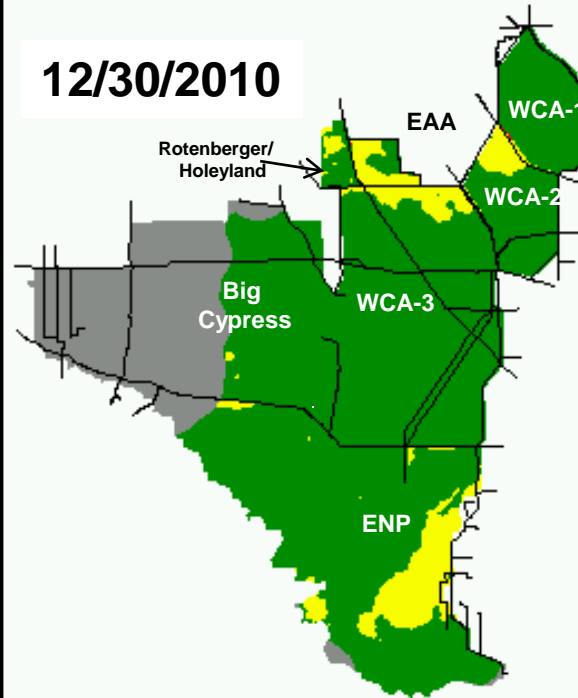


Greater Everglades Fire Risk

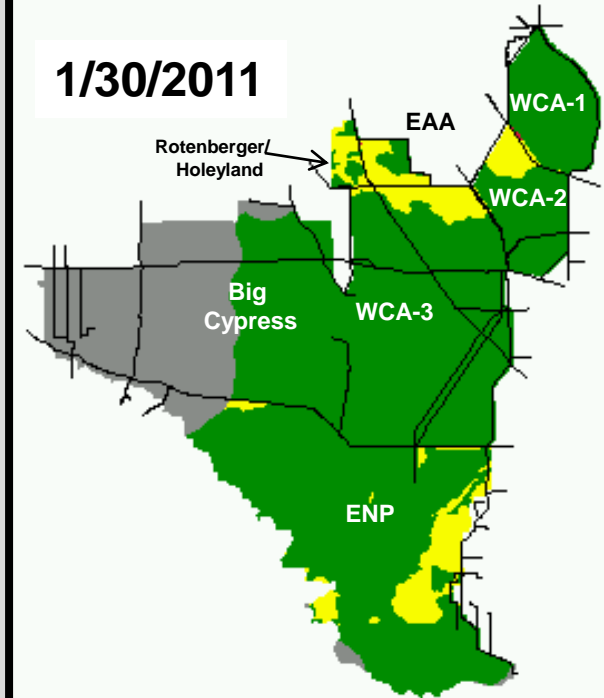
11/30/2010



12/30/2010



1/30/2011



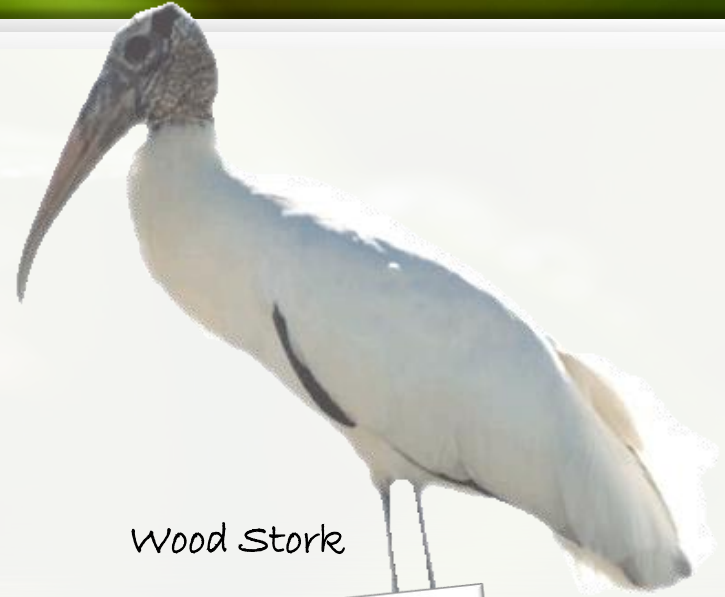
Muck Fire
Area Index (MFAI)

Low Risk	Moderate Risk	High Risk	Not Available
Green	Yellow	Red	Grey



Wading Bird Update

- Large flocks of wading birds, including Wood Storks, Roseate Spoonbills, White Ibises, and Great Egrets are feeding in the Conservation Areas
- Roseate Spoonbill nesting activities are low in Florida Bay



Wood Stork



Roseate Spoonbill



Roseate Spoonbill

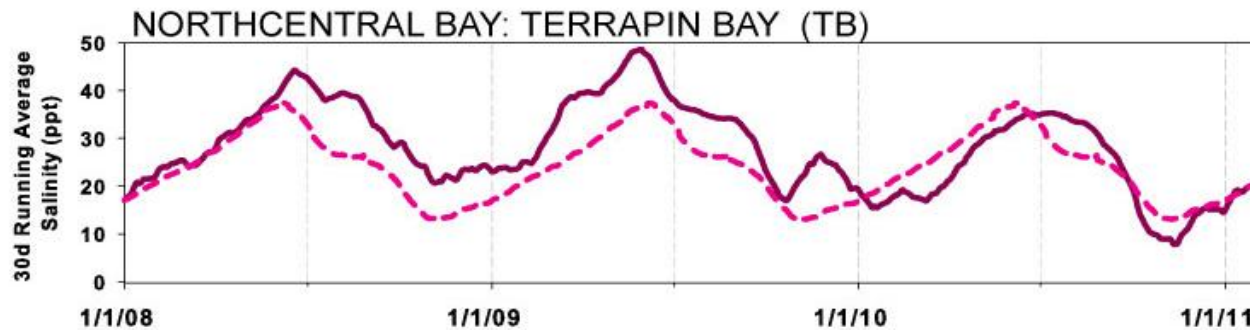
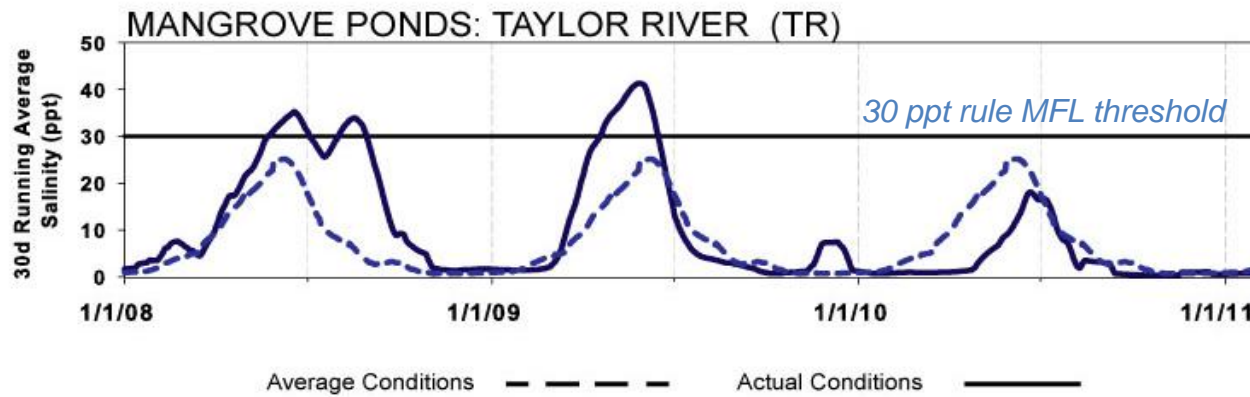


White Ibis



Great Egret

Tracking Salinity in Florida Bay



✓ Recent rainfall has improved conditions across southern Everglades and reduced chance for hypersalinity in Florida Bay

Goal: Protect seagrass habitat to prevent significant harm to ecosystem

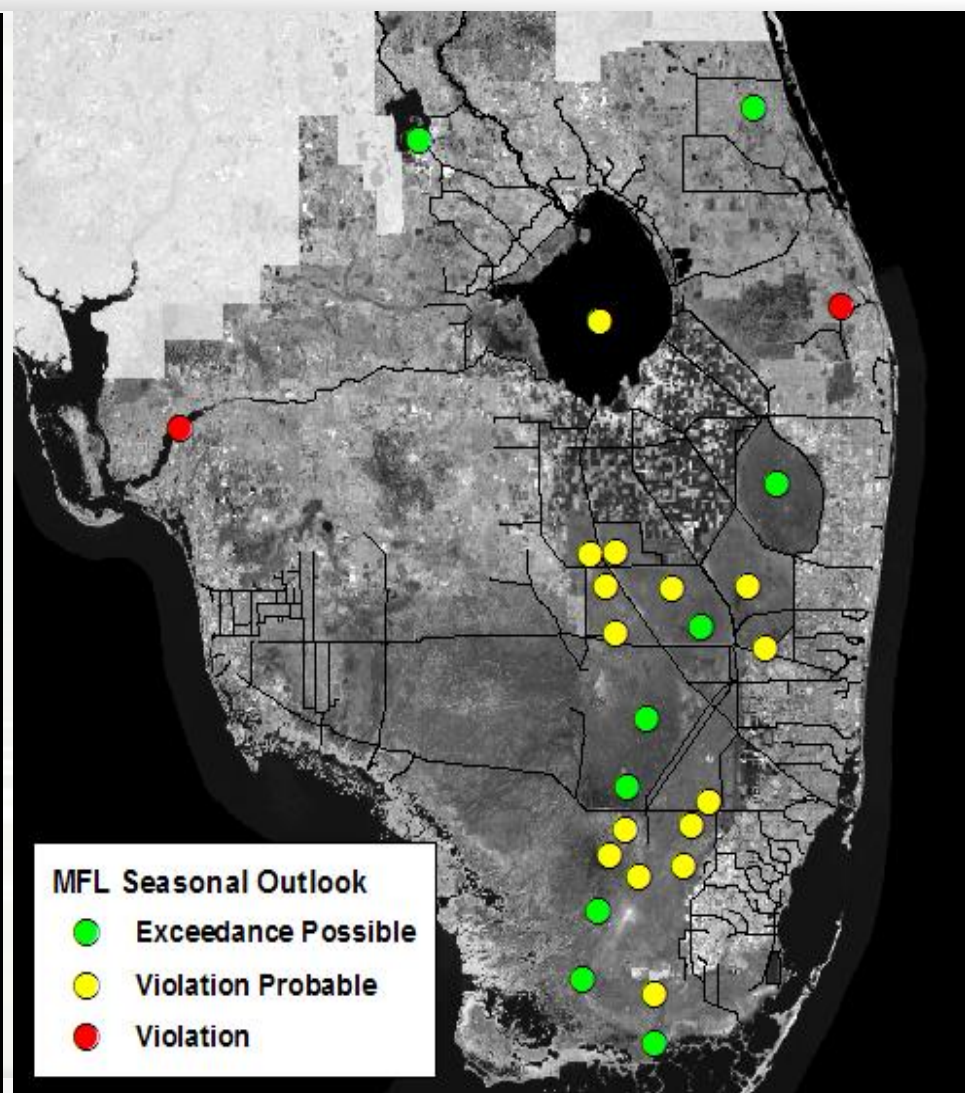
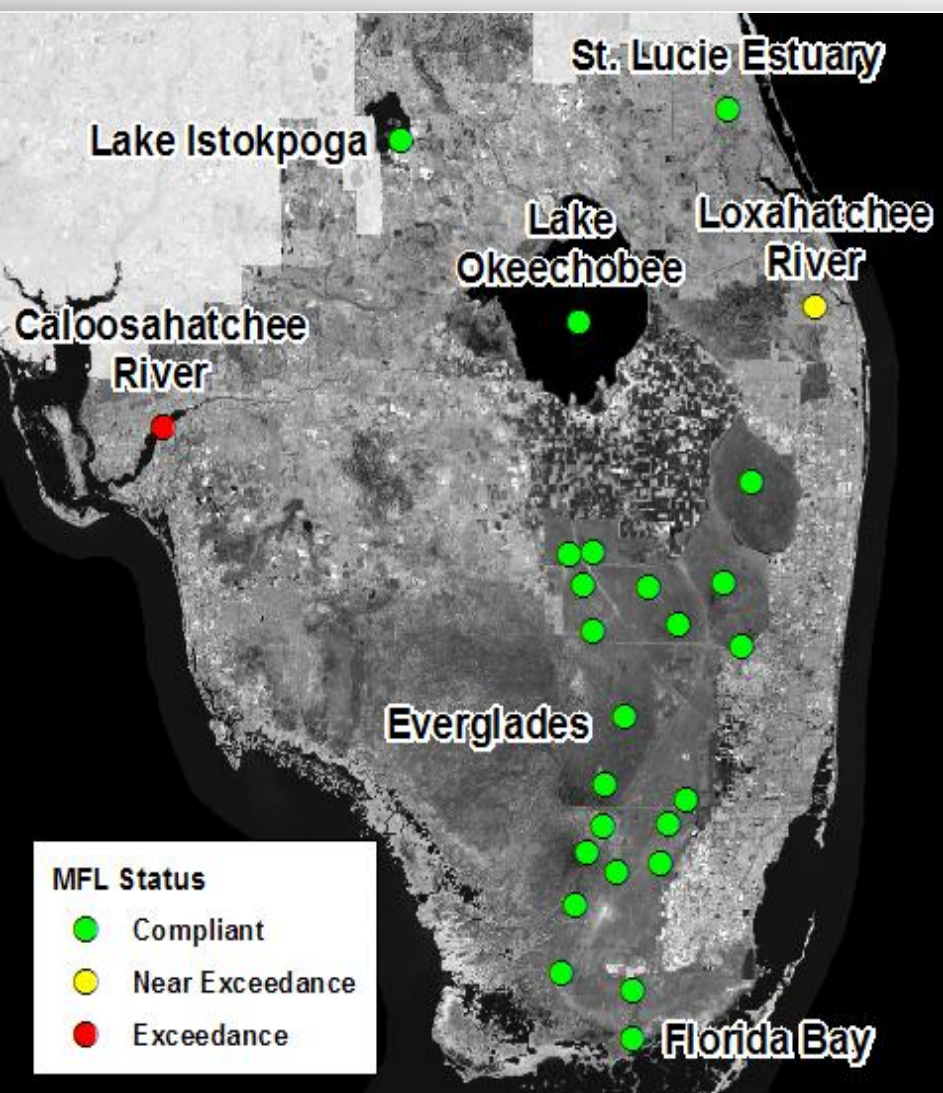


MFL Status and Seasonal Outlook

	Date of Last Exceedance	Status	30-day Outlook	Seasonal Outlook (May 2011)
Lake Istokpoga	None	Compliant	Compliant	Exceedance Possible
St. Lucie Estuary	None	Compliant	Compliant	Exceedance Possible
Lake Okeechobee	8/3/2008	Compliant	Compliant	Violation Probable
Caloosahatchee River	Present Exceedance	Exceedance	Exceedance	Violation
Northwest Fork of the Loxahatchee River	12/19/2010	Near Exceedance	Exceedance Probable	Violation
Everglades: WCA-1 (1-7)	None	Compliant	Compliant	Exceedance Possible
Everglades: WCA-2A (2A-17)	5/18/2009	Compliant	Compliant	Violation Probable
Everglades: WCA-2B (2B-21)	7/1/2007	Compliant	Compliant	Violation Probable
Everglades: WCA-3A North (3A-NE)	5/25/2009	Compliant	Compliant	Violation Probable
Everglades: WCA-3A North (3A-NW)	6/1/2007	Compliant	Compliant	Violation Probable
Everglades: WCA-3A North (3A-2)	5/18/2009	Compliant	Compliant	Violation Probable
Everglades: WCA-3A North (3A-3)	6/1/2007	Compliant	Compliant	Exceedance Possible
Everglades: WCA-3A Central (3A-4)	None	Compliant	Compliant	Exceedance Possible
Everglades: WCA-3A South (3A-28)	None	Compliant	Compliant	Exceedance Possible
Everglades: WCA-3B (3B-SE)	5/18/2009	Compliant	Compliant	Violation Probable
Everglades: Rotenberger WMA (Rotts)	5/11/2009	Compliant	Compliant	Violation Probable
Everglades: Holeyland WMA (HoleyG)	5/18/2009	Compliant	Compliant	Violation Probable
Everglades: NE Shark Slough (NESRS-2)	5/12/2009	Compliant	Compliant	Violation Probable
Everglades: Central Shark Slough (NP-33)	5/17/2009	Compliant	Compliant	Violation Probable
Everglades: Central Shark Slough (NP-36)	None	Compliant	Compliant	Exceedance Possible
Everglades: Marl wetlands east of Shark	None	Compliant	Compliant	Exceedance Possible
Everglades: Marl wetlands west of Shark Slough (NP-201)	5/29/2009	Compliant	Compliant	Violation Probable
Everglades: Marl wetlands west of Shark Slough (G-620)	5/29/2009	Compliant	Compliant	Violation Probable
Everglades: Rockland marl marsh (G-1502)	5/18/2009	Compliant	Compliant	Violation Probable
Everglades: Taylor Slough (NP-67)	5/18/2009	Compliant	Compliant	Violation Probable
Florida Bay	6/15/2009	Compliant	Compliant	Exceedance Possible

MFL Status and Seasonal Outlook

(Continued)





Willow Treatment Activities in the STAs